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<b>UTILITY PATENT APPLICATION TRANSMITTAL</b>  <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>		Attorney Docket No. <b>612.43234X00</b>	First Inventor <b>HU, LIN-YING</b>	Title <b>METHOD FOR RAPID FORMATION OF A STOCHASTIC MODEL REPRESENTATIVE OF A HETEROGENEOUS UNDERGROUND RESERVOIR, CONSTRAINED BY DYNAMIC DATA</b>
		Express Mail Label No.		

<b>APPLICATION ELEMENTS</b> SEE MPEP chapter 600 concerning utility patent application contents.	<b>ADDRESS TO:</b> Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450
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1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
*(Submit an original and a duplicate for fee processing)*

2. ☐ Applicant claims small entity status.  
 See 37 CFR 1.27.

3. ☒ Specification [Total Pages: **20**]  
*(preferred arrangement set forth below)*  
 -Descriptive title of the invention  
 -Cross Reference to Related Applications  
 -Statement Regarding Fed sponsored R & D  
 -Reference to sequence listing, a table, or a computer program listing appendix  
 -Background of the Invention  
 -Brief Summary of the Invention  
 -Brief Description of the Drawings (if filed)  
 -Detailed Description  
 -Claim(s)  
 -Abstract of the Disclosure

4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets: **3**]

5. Oath or Declaration [Total Sheets: **\_\_\_\_\_**]  
 a. ☐ Newly executed (original or copy)  
 b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
*(for continuation/divisional with Box 18 completed)*  
 i. ☐ **DELETION OF INVENTOR(S)**  
 Signed statement attached deleting inventor(s)  
 Named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b)

6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission *if applicable, all necessary*  
 a. ☐ Computer Readable Form (CRF)  
 b. Specification Sequence Listing on:  
     i. ☐ CD-ROM or CD-R (2 copies); or  
     ii. ☐ paper  
 c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS	
9. <input type="checkbox"/> Assignment Papers (cover sheet & documents(s)) 10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of Attorney <i>(when there is an assignee)</i> 11. <input type="checkbox"/> English Translation Document <i>(if applicable)</i> 12. <input checked="" type="checkbox"/> Information Disclosure <input checked="" type="checkbox"/> Copies of IDS Citations Statement (IDS)/PTO-1449 13. <input checked="" type="checkbox"/> Preliminary Amendment 14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i> 15. <input type="checkbox"/> Certified Copy of Priority Document(s) <i>(if foreign priority is claimed)</i> 16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. <input checked="" type="checkbox"/> Other: <b>Figs. 1-6, Credit Card Payment Form, Claim For Priority Letter</b>	

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

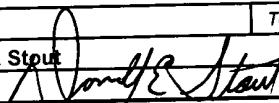
☐ Continuation    ☐ Divisional    ☐ Continuation-in-part (CIP)    of prior application No.: \_\_\_\_\_

Prior application information: Examiner: \_\_\_\_\_ Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

<input checked="" type="checkbox"/> Customer Number <b>020457</b>		OR <input type="checkbox"/> Correspondence address below	
Name <b>ANTONELLI, TERRY, STOUT &amp; KRAUS, LLP</b>			
Address _____			
City _____	State _____	Zip Code _____	
Country _____	Telephone <b>(703) 312-6600</b>	Fax <b>(703) 312-6666</b>	
Name (Print/Type) <b>Donald E. Stout</b>	Registration No. (Attorney/Agent) <b>26,422</b>		
Signature 	Date <b>October 30, 2003</b>		

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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 03917 U.S. PTO  
 10/695899

103003

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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 770.00)

## Complete if Known

Application Number  
Filing Date October 30, 2003  
First Named Inventor HU, LIN-YING  
Examiner Name  
Art Unit  
Attorney Docket No. 612.43234X00

## METHOD OF PAYMENT (check all that apply)

☐ Check ☒ Credit Card ☐ Money ☐ Other ☐ None  
Order

☒ Deposit Account:

Deposit  
Account  
Number  
Deposit  
Account  
Name

01-2135

Antonelli, Terry, Stout &amp; Kraus, LLP

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) during the pendency of this application.☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Code	Entity Fee (\$)	Small Code	Entity Fee (\$)	Fee Description
1001	770	2001	385	Utility filing fee
1002	340	2002	170	Design filing fee
1003	530	2003	265	Plant filing fee
1004	770	2004	385	Reissue filing fee
1005	160	2005	80	Provisional filing fee

SUBTOTAL (1)

770.00

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
16	-20** = 0	x 18	= 0
Indep. Claims	1	-3** = 0	x 86 = 0
Multiple Dependent		290	= 0

Large Entity Small Entity

Fee Fee Fee Fee

Code (\$) Code (\$) Code (\$) Code (\$)

1202 18 2202 9

1201 86 2201 43

1203 290 2203 145

1204 86 2204 43

1205 18 2205 9

## Fee Description

Claims in excess of 20

Independent claims in excess of 3

Multiple dependent claim, if not paid

\*\* Reissue independent claims

over original patent

\*\* Reissue claims in excess of 20

and over original patent

SUBTOTAL (2) \$ 0.00

\*\*or number previously paid, if greater; For Reissues, see above.

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

Large Entity Small Entity

Fee Fee Fee Fee

Code (\$) Code (\$) Code (\$) Code (\$)

1051 130 2051 65

1052 50 2052 25

1053 130 2053 130

1812 2,520 2054 2,520

1804 920\* 2055 920\*

1805 1,840\* 2056 1,840\*

1251 110 2251 55

1252 420 2252 210

1253 950 2253 475

1254 1,480 2254 740

1255 2,010 2255 1,005

1401 330 2401 165

1402 330 2402 165

1403 290 2403 145

1451 1,510 2451 1,510

1452 110 2452 55

1453 1,330 2453 665

1501 1,330 2501 665

1502 480 2502 240

1503 640 2503 320

1406 130 2406 130

1807 50 2807 50

1806 180 2806 180

8021 40 8021 40

1809 770 2809 385

1810 770 2810 385

1801 770 2801 385

1802 900 2802 900

1807 50 2807 50

1806 180 2806 180

8021 40 8021 40

1809 770 2809 385

1810 770 2810 385

1801 770 2801 385

1802 900 2802 900

1807 50 2807 50

1806 180 2806 180

8021 40 8021 40

1809 770 2809 385

1810 770 2810 385

1801 770 2801 385

1802 900 2802 900

1807 50 2807 50

1806 180 2806 180

8021 40 8021 40

1809 770 2809 385

1810 770 2810 385

1801 770 2801 385

1802 900 2802 900

1807 50 2807 50

1806 180 2806 180

8021 40 8021 40

1809 770 2809 385

1810 770 2810 385

1801 770 2801 385

1802 900 2802 900

1807 50 2807 50

1806 180 2806 180

8021 40 8021 40

1809 770 2809 385

1810 770 2810 385

1801 770 2801 385

1802 900 2802 900

Fee Description

Surcharge - late filing fee or oath

Surcharge - late provisional filing fee or cover sheet

Non-English specification

For filing a request for ex parte reexamination

Requesting publication of SIR prior to Examination action

Requesting publication of SIR after Examiner action

Extension for reply within first month

Extension for reply within second month

Extension for reply within third month

Extension for reply within fourth month

Extension for reply within fifth month

Notice of Appeal

Filing a brief in support of an appeal

Request for oral hearing

Petition to institute a public use proceeding

Petition to revive - unavoidable

Petition to revive - unintentional

Utility issue fee (or reissue)

Design issue fee

Plant issue fee

Petitions to the Commissioner

Processing fee under 37 CFR 1.17(q)

Submission of Information Disclosure Stmt

Recording each patent assignment per property (times number of properties)

Filing a submission after final rejection (37 CFR § 1.129(a))

For each additional invention to be examined (37 CFR § 1.129(b))

Request for Continued Examination (RCE)

Request for expedited examination of a design application

Fee Paid

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

0.00

## SUBMITTED BY

Name (Print/Type)

Donald E. Stout

Registration No.  
(Attorney/Agent)

26,422

Telephone

703-312-6600

Signature

Date

10/30/2003

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